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(54) **SYSTEM AND METHOD FOR
DETERMINING VISUAL ALERTNESS**

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(57) **ABSTRACT**

In one embodiment, a method is characterized by presenting a first pattern of light during a first interval of time; recording a first-pattern response set; presenting a second pattern of light during a second interval of time; recording a second-pattern response set; and assessing visual alertness in response to the first-pattern response set and the second-pattern response set. In one embodiment, a related system includes but is not limited to circuitry and/or programming for effecting the foregoing-referenced method embodiment; the circuitry and/or programming can be virtually any combination of hardware, software, and/or firmware configured to effect the foregoing-referenced method embodiment depending upon the design choices of the system designer.

46 Claims, 11 Drawing Sheets

